

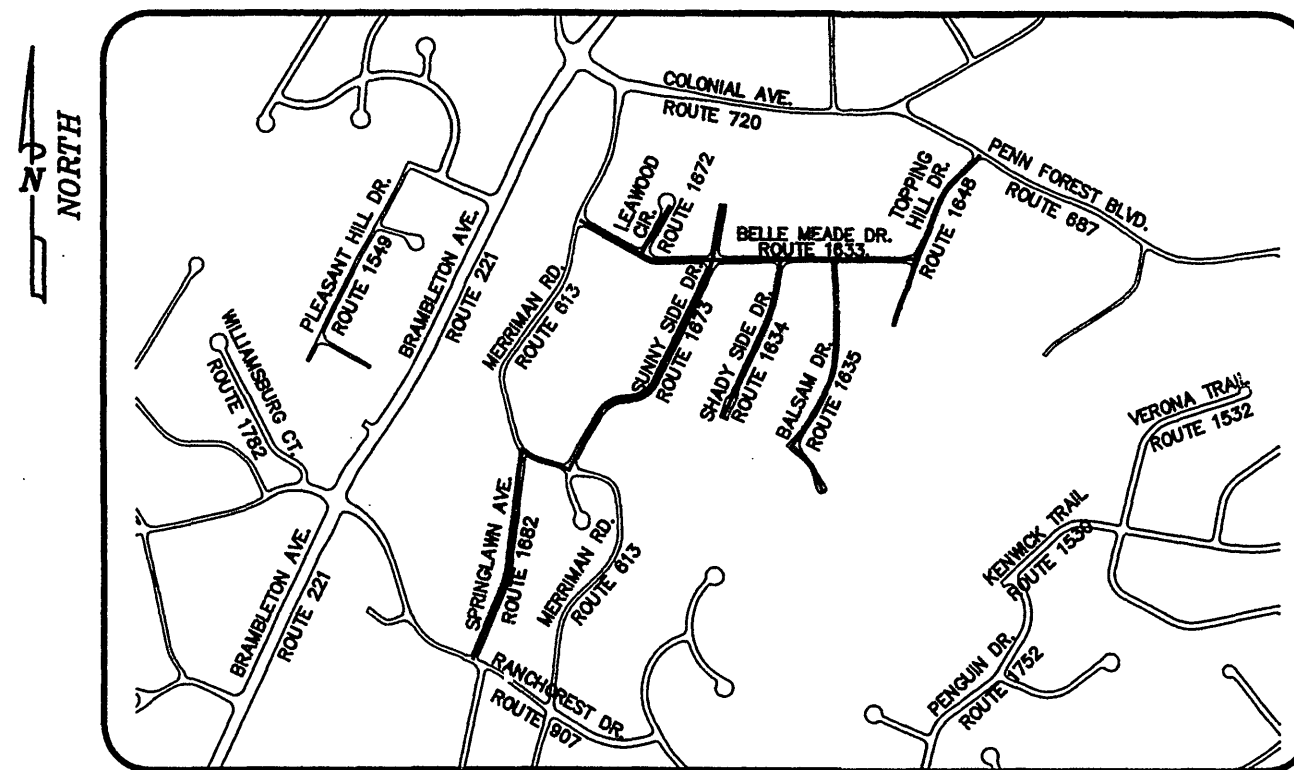
GENERAL NOTES

- THE TOPOGRAPHIC FEATURES DEPICTED HEREON ARE TAKEN FROM THE ROANOKE COUNTY TOPOGRAPHIC RECORDS ARCHIVE. A TOPOGRAPHIC SURVEY TO PROVIDE ADDITIONAL TOPOGRAPHIC INFORMATION WAS PERFORMED BY GAY AND NEEL, INC. NOVEMBER 2007.
- THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND THEREFORE MAY NOT INDICATE ALL ENCUMBRANCES THAT MAY AFFECT THE SUBJECT PROPERTIES.
- LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE APPROXIMATE, BASED ON AVAILABLE SURFACE STRUCTURES, SUCH AS VALVES, MANHOLES, ETC., "MISS UTILITY" MARKINGS, AND RECORD INFORMATION. GAY AND NEEL, INC. DOES NOT WARRANT EXISTENCE OF, OR LOCATIONS OF UNDERGROUND UTILITY LINES AND/OR STRUCTURES.
- PROPERTY LINES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. NO BOUNDARY SURVEY HAS BEEN PERFORMED AS A PART OF THIS PROJECT.
- THE SUBJECT PROPERTY IS NOT LOCATED WITHIN A F.E.M.A. DESIGNATED 100-YEAR FLOOD ZONE. THE SUBJECT PROPERTY LIES WITHIN ZONE "X" AS SHOWN ON F.I.R.M. COMMUNITY PANEL NO. 51161C0161G, EFFECTIVE DATE OF SEPTEMBER 28, 2007. THIS DETERMINATION HAS BEEN MADE BY GRAPHIC METHODS. NO ELEVATION STUDY HAS BEEN PERFORMED AS A PART OF THIS PROJECT.
- ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE WESTERN VIRGINIA WATER AUTHORITY (AUTHORITY) AVAILABLE AT WWW.WESTERNVAWA.ORG OR BY CONTACTING THE AUTHORITY AT 540-853-5700. THE PROJECT SHALL ALSO COMPLY WITH THE GOVERNING JURISDICTION'S STANDARDS AND OTHER AGENCY STANDARDS (E.G., VDOT, DEQ, DCR, VDH, ETC.) WHERE APPLICABLE.
- THE AUTHORITY WILL INSTALL ALL NEW WATER METERS AND REMOVE ALL EXISTING WATER METERS. THE CONTRACTOR SHALL INSTALL COMPLETE NEW WATER SERVICES INCLUDING THE METER SETTER AND VAULT. FOLLOWING METER REPLACEMENT BY THE AUTHORITY, THE CONTRACTOR SHALL DEMOLISH THE EXISTING WATER METER SETTER AND VAULT. THE CONTRACTOR SHALL COORDINATE EXISTING METER REMOVAL AND NEW METER INSTALLATION DIRECTLY WITH THE AUTHORITY. THE CONTRACTOR SHALL PROVIDE AT LEAST THREE (3) BUSINESS DAYS ADVANCE NOTICE TO THE AUTHORITY PRIOR TO NEEDING METER INSTALLATIONS. THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION ACTIVITY TO PROVIDE A SERIES OF AT LEAST TEN (10) SERVICES THAT ARE READY TO RECEIVE NEW METERS BEFORE CONTACTING THE AUTHORITY FOR WATER METER REPLACEMENT.
- ALL CONNECTIONS TO EXISTING WATERLINES SHALL BE PERFORMED BY THE AUTHORITY. THE CONTRACTOR SHALL PROVIDE FUEL, TAPPING SLEEVE(S) AND VALVE(S). THE CONTRACTOR SHALL EXCAVATE TO THE EXISTING WATERLINE, SHORE THE TRENCH PER OSHA REQUIREMENTS, CLEAN THE EXISTING WATERLINE, AND INSTALL THE TAPPING SLEEVE AND VALVE PRIOR TO THE AUTHORITY PERFORMING THE TAP. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY'S UTILITY LINE SERVICES DIVISION AT 540-853-2792 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO REQUESTING THE CONNECTION.
- ALL CONNECTIONS TO EXISTING SANITARY SEWERLINES SHALL BE PERFORMED BY THE AUTHORITY. THE CONTRACTOR SHALL EXCAVATE TO THE EXISTING SEWERLINE, SHORE THE TRENCH PER OSHA REQUIREMENTS, AND CLEAN THE EXISTING SEWERLINE PRIOR TO THE AUTHORITY PERFORMING THE TAP. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY'S UTILITY LINE SERVICES DIVISION AT 540-853-2792 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO REQUESTING THE CONNECTION.
- THE CONTRACTOR SHALL PERFORM ALL MANHOLE CONNECTIONS. THE CORING AND BOOT INSTALLATION SHALL BE INSPECTED AND APPROVED BY AN AUTHORITY CONSTRUCTION INSPECTOR PRIOR TO ACTIVATING SEWER SERVICE. THE CONTRACTOR SHALL CONTACT THE AUTHORITY'S CONSTRUCTION INSPECTOR RESPONSIBLE FOR THE PROJECT AT LEAST ONE (1) DAY PRIOR TO INITIATING THE MANHOLE CONNECTION.
- PRIOR TO CONSTRUCTION IN THE RIGHT-OF-WAY, ALL APPLICABLE PERMIT(S) FROM THE GOVERNING JURISDICTION AND/OR AGENCY MUST BE OBTAINED AND A COPY KEPT ON THE PROJECT SITE.
- FOR PROJECTS REQUIRING TRAFFIC CONTROL IN THE CITY OF ROANOKE, NOTIFY MANAGER OF TRANSPORTATION, MARK JAMISON, AT 540-853-5471 AT LEAST TWO WEEKS IN ADVANCE OF REQUESTING TRAFFIC CONTROL. FOR A LANE CLOSURE PERMIT IN THE CITY OF ROANOKE, CONTACT THE TRAFFIC ENGINEER, BOBMAN, AT 540-853-8834. TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE MOST RECENT MUTCD MANUAL AND THE VDOT WORK AREA PROTECTION MANUAL UNLESS OTHERWISE SPECIFIED BY THE CITY.
- THE CONTRACTOR SHALL NOTIFY THE AUTHORITY'S ENGINEERING COORDINATOR, CHUCK CLARK, AT 540-537-3243 AT LEAST THREE (3) DAYS PRIOR TO CONSTRUCTION.
- A PRE-CONSTRUCTION CONFERENCE SHALL BE SCHEDULED AT LEAST ONE (1) DAY PRIOR TO ANY CONSTRUCTION.
- THE CONTRACTOR SHALL HAVE A VALID MISS UTILITY TICKET PRIOR TO EXCAVATION. CONTACT MISS UTILITY AT 1-800-552-7001.
- ALL EXISTING UTILITIES MAY NOT BE SHOWN OR MAY NOT BE SHOWN IN THEIR EXACT LOCATION. CONTRACTOR SHALL LOCATE ALL UTILITIES AND ALL INVERTS PRIOR TO CONSTRUCTION TO ALLOW FOR ADJUSTMENTS DUE TO CONFLICTS WITH OTHER UTILITIES. THE CONTRACTOR SHALL COMPLY WITH THE VIRGINIA STATE WATER WORKS REGULATIONS, SECTION 12.05.03, AND THE VIRGINIA STATE SEWAGE COLLECTION AND TREATMENT REGULATIONS WHERE LINES CROSS.
- AN APPROVED SET OF PLANS AND PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
- CONSTRUCTION DEBRIS SHALL BE CONTAINERIZED IN ACCORDANCE WITH THE VIRGINIA LITTER CONTROL ACT.
- PRIOR TO COMMENCING WORK, THE CONTRACTOR'S CERTIFIED RESPONSIBLE LAND DISTURBER SHALL OBTAIN AN EROSION AND SEDIMENT CONTROL PERMIT FOR THE PROJECT FROM THE LOCAL GOVERNING JURISDICTION AND DCR (IF REQUIRED). ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING ALL VEHICLES AND EQUIPMENT PRIOR TO ENTERING PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE STREETS ARE KEPT IN A CLEAN, MUD- AND DUST-FREE CONDITION AT ALL TIMES.
- FIELD CHANGES SHALL BE APPROVED BY THE AUTHORITY'S ENGINEERING DIVISION PRIOR TO SUCH CONSTRUCTION.
- THE CONTRACTOR SHALL MAKE PROVISIONS TO PROVIDE ACCESS TO ALL PROPERTIES DURING CONSTRUCTION AND SHALL MAINTAIN SAFE ACCESSIBILITY TO FIRE HYDRANTS AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND UNCOVERING ALL MANHOLES AFTER PAVING. MANHOLE RIMS SHALL BE INSTALLED TO GRADE AND FLUSH WITH THE FINAL PAVEMENT.
- UNREPAIRED ROADWAYS OPENED TO TRAFFIC SHALL HAVE, AT A MINIMUM, COMPACTED AGGREGATE MATERIAL VDOT 21A OR 21B FLUSH WITH THE ADJACENT ROADWAY SURFACE AND SHALL BE INSPECTED AND REPAIRED ON A DAILY BASIS. SOME AREAS WILL REQUIRE A TEMPORARY PATCH UNTIL FINAL PAVING CAN BE COMPLETED.
- THE CONTRACTOR SHALL NOT EXCAVATE MORE TRENCH LENGTH THAN CAN BE RESTORED WITHIN THE SAME WORK DAY. ALL TRENCHES SHALL BE BACKFILLED OR PLATED AT THE END OF EACH WORK DAY OR WHEN THE CONTRACTOR IS NOT ON SITE.
- THE CONTRACTOR SHALL SUPPLY THE AUTHORITY WITH CORRECT AS-BUILT PLANS BEFORE SUBSTANTIAL COMPLETION WILL BE GRANTED.
- ALL UTILITIES TO BE MAINTAINED BY THE WESTERN VIRGINIA WATER AUTHORITY SHALL BE WITHIN DEDICATED RIGHTS-OF-WAY OR EASEMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY UTILITIES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES. VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK.
- ALL ACTIVITIES IN PUBLIC RIGHT-OF-WAY SHALL CONFORM TO VDOT WORK AREA PROTECTION MANUAL (MOST RECENT EDITION).
- PAVEMENT WORK WITHIN THE VDOT RIGHT-OF-WAY REQUIRES THE FOLLOWING INSPECTIONS:
A. SUBGRADE PRIOR TO PLACEMENT OF BASE STONE
B. BASE STONE PRIOR TO PLACEMENT OF PAVEMENT
C. PAVEMENT
- THE MINIMUM REQUIRED DENSITY FOR ALL COMPACTION SHALL BE 95% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN ±2% OF THE OPTIMUM.
- ALL NEW WATERLINE SERVICE LATERAL INSTALLATION SHALL BE DIRECTIONAL BORED, UNLESS CONDITIONS DICTATE OTHERWISE.

BELLE MEADE AREA WATERLINE REPLACEMENTS ROANOKE COUNTY, VIRGINIA

WESTERN VIRGINIA WATER AUTHORITY NOTES: WATERLINE NOTES

- A MINIMUM COVER OF THREE (3) FEET IS REQUIRED OVER PROPOSED LINES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND UNCOVERING VALVE VAULTS, MANHOLE COVERS, ETC., AFTER PAVING AND ADJUSTMENT TO FINAL GRADE IF NECESSARY.
- ALL EXISTING UTILITIES MAY NOT BE SHOWN, OR MAY NOT BE SHOWN IN THE EXACT LOCATION. THE CONTRACTOR SHALL COMPLY WITH STATE WATER WORKS REGULATIONS, SECTION 12.05.03, WHERE LINES CROSS.
- ALL TRENCHES IN EXISTING OR FUTURE HIGHWAY RIGHTS-OF-WAY SHALL BE COMPACTED ACCORDING TO WESTERN VIRGINIA WATER AUTHORITY STANDARDS.
- LINES SHALL BE STAKED PRIOR TO CONSTRUCTION.
- ALL WATER MAINS UNDER A WORKING PRESSURE OF 100 PSI OR GREATER MUST BE DUCTILE IRON. FITTINGS MUST ADHERE TO HIGH PRESSURE, IF APPLICABLE.
- ALL WATER METERS SHALL BE ¾" METERS, UNLESS OTHERWISE NOTED.
- FOR THIS PROJECT, ALL WATER SERVICES SHALL BE "TYPE A" UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL SECURE PERMISSION TO WORK ON PRIVATE PROPERTY WHEN NECESSARY TO CONNECT NEW WATER SERVICES TO EXISTING SERVICE LINES.



VICINITY MAP
SCALE: 1"=1000'

APPROVAL & ACCEPTANCE:

Robert W. Benning 5/28/09
APPROVED FOR CONSTRUCTION DATE

LEGEND:

---	LIMITS OF DISTURBANCE LINE	□ TELE PED	EXISTING TELEPHONE PEDESTAL
---	PROPERTY LINE	⊗ GV	EXISTING GAS VALVE
---	EXISTING 2' CONTOURS	□ GM	EXISTING GAS METER
---	PROPOSED 2' CONTOURS	⊗ LP	EXISTING LIGHT POLE
90.56	EXISTING SPOT ELEVATION	⊗	EXISTING WELL
90.56	PROPOSED SPOT ELEVATION	⊗	DRILL HOLE
90.56	PROPOSED TOP CURB ELEVATION	⊗	EXISTING FIRE HYDRANT
90.56	PROPOSED BOTTOM CURB ELEVATION	⊗	PROPOSED FIRE HYDRANT
8" S	EXISTING SANITARY SEWER	⊗ WV	EXISTING WATER VALVE
---	PROPOSED SANITARY SEWER	⊗	PROPOSED WATER VALVE
6" W	EXISTING WATERLINE	□ WM	EXISTING WATER SERVICE
---	PROPOSED WATERLINE	□	PROPOSED WATER SERVICE
24" S	EXISTING STORM SEWER	⊗ CO	EXISTING SEWER CLEANOUT
---	PROPOSED STORM SEWER	⊗	PROPOSED SEWER CLEANOUT
---	EXISTING EDGE OF PAVEMENT	⊗ SMH	EXISTING SEWER MANHOLE
---	PROPOSED PAVEMENT	⊗	PROPOSED SEWER MANHOLE
---	PROPOSED GRAVEL	⊗	EXISTING SHRUB
---	PROPOSED CONCRETE/SIDEWALK	⊗	EXISTING TREE
---	EXISTING BUILDING	⊗	PROPOSED TREE
---	PROPOSED BUILDING	⊗	EXISTING SIGN
---	EXISTING OVERHEAD ELECTRIC	⊗	PROPOSED SIGN
---	EXISTING BURIED ELECTRIC	⊗ TP	BORE HOLE/TEST PIT
---	EXISTING BURIED CABLE TV LINE	⊗	CONTROL POINT
---	EXISTING GAS LINE	⊗ IRF	IRON ROD FOUND
---	EXISTING BURIED TELEPHONE LINE	⊗ IRS	IRON ROD SET
---	EXISTING FENCE LINE	⊗	PROPERTY CORNER
---	EXISTING TREELINE	⊗ FP	FENCE POST
---	BENCHMARK LOCATION	(TBR)	TO BE REMOVED
U.P.	EXISTING UTILITY POLE	⊗ MB	EXISTING MAILBOX
---	EXISTING GUY WIRE		

ABBREVIATION LEGEND:

AT	AIR CONDITIONER	LB.	POUND
A/C	AIR CONDITIONER	M	METER
AC	APPROXIMATE	M.B.L.	MINIMUM BUILDING LINE
ALT.	ALTERNATE	MAG.	MAGISTERIAL
APPROX.	APPROXIMATE	MAX	MAXIMUM
AVG.	AVERAGE	MB	MAIL BOX
B.M.	BENCHMARK	MH	MANHOLE
BC	BOTTOM OF CURB	MIN.	MINIMUM
B.V.D.	BOULEVARD	MON.	MONUMENT
BASEMT	BASEMENT	MTL.	METAL
B.F.	BOTTOM OF WALL	N.C.	NOT IN CONTRACT
CF	CUBIC FEET	N.S.	NORTH & SOUTHERN
CHD	CURB INLET	N.T.S.	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT	N/F	NOW OR FORMERLY
C.V.	CHECK VALVE	N/P	NORTHBOUND LANE
CATV	CABLE TELEVISION	NO./#	NUMBER
CHD	CORRUGATED METAL PIPE	NRV	NEW RIVER VALLEY
CHD	CORRUGATED METAL PIPE	OD	OUTSIDE DIAMETER
CHD	CORRUGATED METAL PIPE	O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
CHD	CORRUGATED METAL PIPE	OVERHEAD	OVERHEAD ELECTRIC
CHD	CORRUGATED METAL PIPE	P.B.	PLAT BOOK
CHD	CORRUGATED METAL PIPE	P.C.	PUBLIC UTILITY
CHD	CORRUGATED METAL PIPE	P.U. & D.E.	PUBLIC UTILITY AND DRAINAGE EASEMENT
CHD	CORRUGATED METAL PIPE	P.E.	POLYETHYLENE
CHD	CORRUGATED METAL PIPE	PED.	PEDESTAL
CHD	CORRUGATED METAL PIPE	PAGE	PAGE
CHD	CORRUGATED METAL PIPE	PROP.	PROPOSED
CHD	CORRUGATED METAL PIPE	PSI	POUNDS PER SQUARE INCH
CHD	CORRUGATED METAL PIPE	DETAL	DETAIL
CHD	CORRUGATED METAL PIPE	PMT	PAVEMENT
CHD	CORRUGATED METAL PIPE	R	RADIUS
CHD	CORRUGATED METAL PIPE	R.R.	RAILROAD
CHD	CORRUGATED METAL PIPE	R/W	RIGHT-OF-WAY
CHD	CORRUGATED METAL PIPE	RCP	REINFORCED CONCRETE PIPE
CHD	CORRUGATED METAL PIPE	RD	ROAD
CHD	CORRUGATED METAL PIPE	REF.	REFERENCE
CHD	CORRUGATED METAL PIPE	REC'D	RECORDED
CHD	CORRUGATED METAL PIPE	RET.	RETAINING
CHD	CORRUGATED METAL PIPE	REV.	REVISION
CHD	CORRUGATED METAL PIPE	ROUTE	ROUTE
CHD	CORRUGATED METAL PIPE	R.W.	RAILWAY
CHD	CORRUGATED METAL PIPE	S.D.	STORM DRAIN
CHD	CORRUGATED METAL PIPE	SDH	STORM DRAIN MANHOLE
CHD	CORRUGATED METAL PIPE	SQ	SQUARE
CHD	CORRUGATED METAL PIPE	S.S.	SOUTHBOUND LANE
CHD	CORRUGATED METAL PIPE	SCH	SCHEDULE
CHD	CORRUGATED METAL PIPE	SHEET	SHEET
CHD	CORRUGATED METAL PIPE	SPEC.	SPECIFICATION
CHD	CORRUGATED METAL PIPE	SPK	SEPTIC TANK
CHD	CORRUGATED METAL PIPE	SEW	SANITARY SEWER
CHD	CORRUGATED METAL PIPE	SMH	SANITARY SEWER MANHOLE
CHD	CORRUGATED METAL PIPE	STA.	STATION
CHD	CORRUGATED METAL PIPE	STD.	STANDARD
CHD	CORRUGATED METAL PIPE	STORY	STORY
CHD	CORRUGATED METAL PIPE	SWME	STORMWATER MANAGEMENT EASEMENT
CHD	CORRUGATED METAL PIPE	SWMF	STORMWATER MANAGEMENT FACILITY
CHD	CORRUGATED METAL PIPE	TOP OF CURB/CONCRETE	TOP OF CURB/CONCRETE
CHD	CORRUGATED METAL PIPE	TOP OF BOTTLE	TOP OF BOTTLE
CHD	CORRUGATED METAL PIPE	TOP OF SLOPE	TOP OF SLOPE
CHD	CORRUGATED METAL PIPE	TOP OF WALL	TOP OF WALL
CHD	CORRUGATED METAL PIPE	TOP OF FLOOR	TOP OF FLOOR
CHD	CORRUGATED METAL PIPE	TOP OF ROOF	TOP OF ROOF
CHD	CORRUGATED METAL PIPE	TOP OF DRAIN	TOP OF DRAIN
CHD	CORRUGATED METAL PIPE	TOP OF TANK	TOP OF TANK
CHD	CORRUGATED METAL PIPE	TOP OF VALVE	TOP OF VALVE
CHD	CORRUGATED METAL PIPE	TOP OF TRANSFORMER	TOP OF TRANSFORMER

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SHEET	TITLE
C1	ROANOKE COUNTY COVER SHEET
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3	BELLE MEADE DRIVE (A)
4	SUNNY SIDE DRIVE (A)
5	BELLE MEADE DRIVE (B) & SUNNY SIDE DRIVE (B)
6	SHADY SIDE DRIVE
7	BALSAM DRIVE
8	MERRIMAN ROAD & LEAWOOD CIRCLE
9	SPRINGLAWN AVENUE
10	WWVA DETAILS (1 OF 2)
11	WWVA DETAILS (2 OF 2)
12	VDOT DETAILS

GENERAL EROSION & SEDIMENT CONTROL NOTES:

- ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS, WITH MOST PARTICULAR ATTENTION BEING PAID TO THE FOLLOWING MINIMUM STANDARDS:
- MS-1: PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
- MS-2: DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- MS-3: A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE, AND WILL INHIBIT EROSION.
- MS-4: SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY, AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
- MS-16: UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
C. EFFLUENT FROM Dewatering OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
E. REESTABLISHMENT SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
- MS-17: WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE FOR TRANSPORT OF SEDIMENT BY VEHICLES. ROAD SURFACE, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.
- MS-18: ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
- ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
- ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
- ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT, ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

VE&SCH STD 3.05, SILT FENCE, TO BE INSTALLED DOWNSLOPE OF ALL EROSION DISTURBING ACTIVITY, AND AS SHOWN ON PLANS.

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Cover Sheet

Belle Meade Area
Waterline Replacements
Roanoke County, Virginia

COMMONWEALTH OF VIRGINIA
RICHARD C. MURPHY
Lic. No. 041898
05/28/09
PROFESSIONAL ENGINEER

REVISED:
02/11/08
05/29/09

DESIGNED/CALC.: MPT
CHECKED: MPT
DRAWN: MPT
SCALE: N/A
DATE: 01/14/08

JOB NO. 1882.0
SHEET 1 OF 12